

FIG. 1A

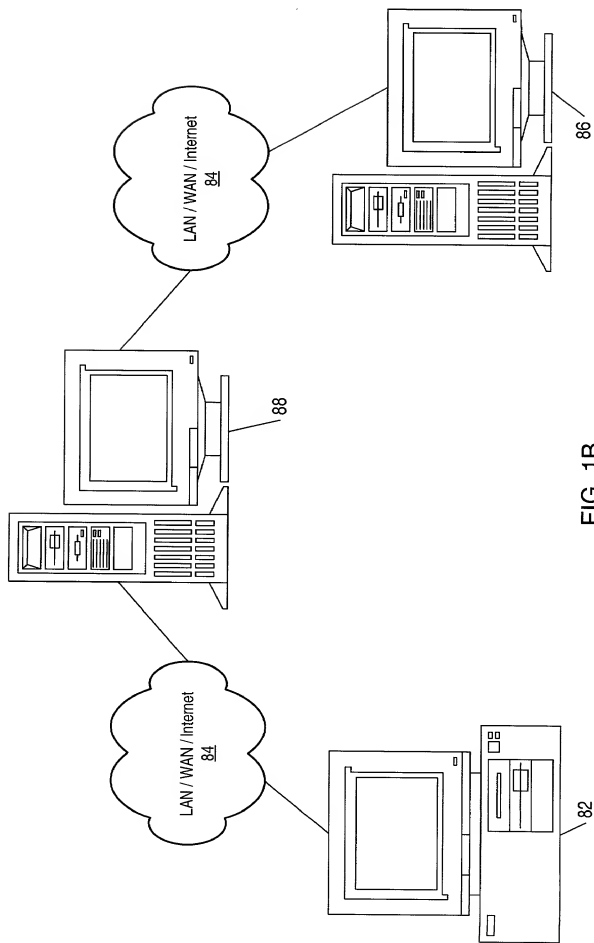


FIG. 1B

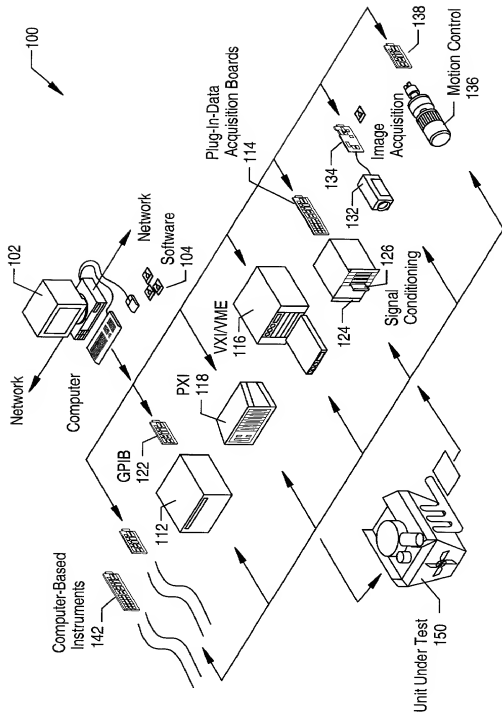


FIG. 2A

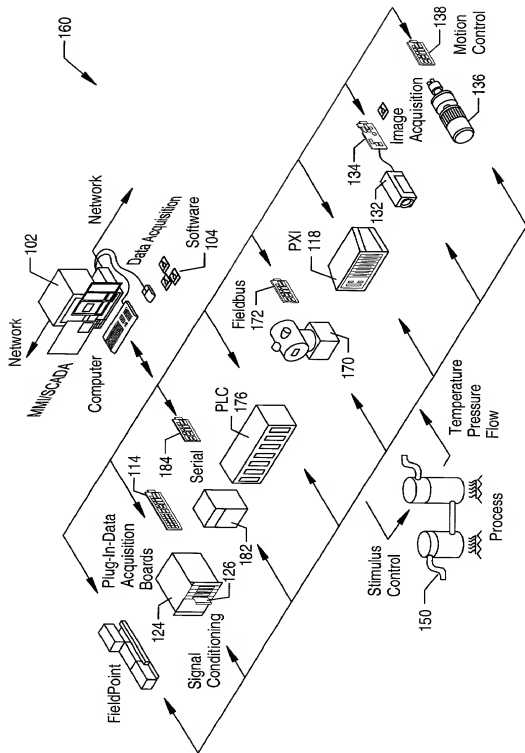


FIG. 2B

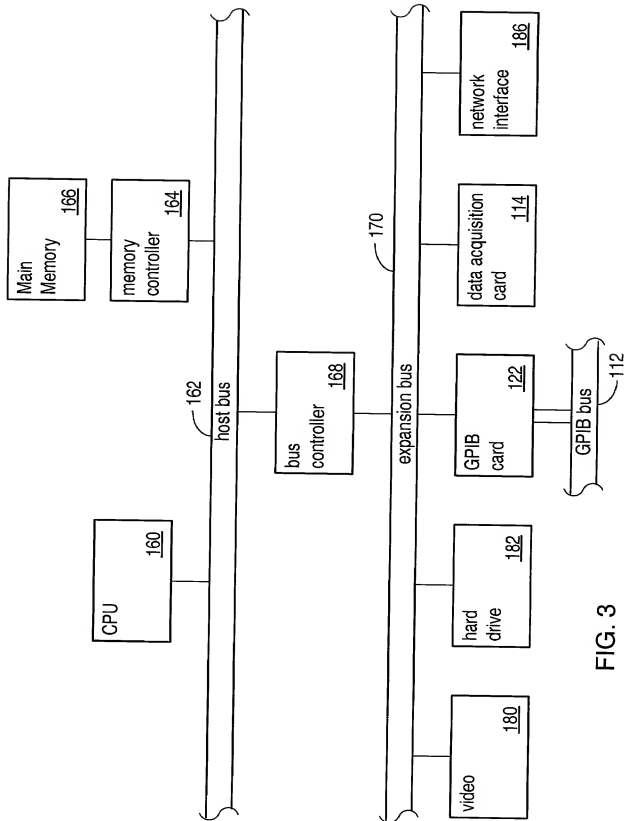


FIG. 3

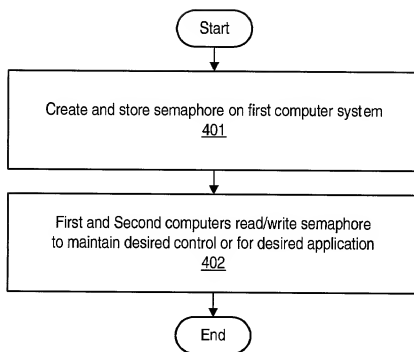


FIG. 4

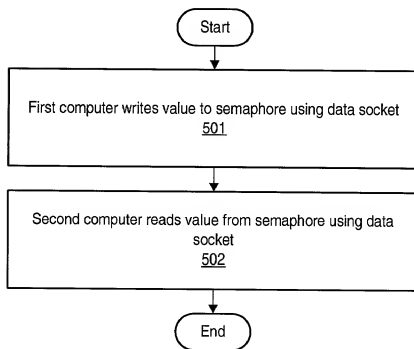


FIG. 5A

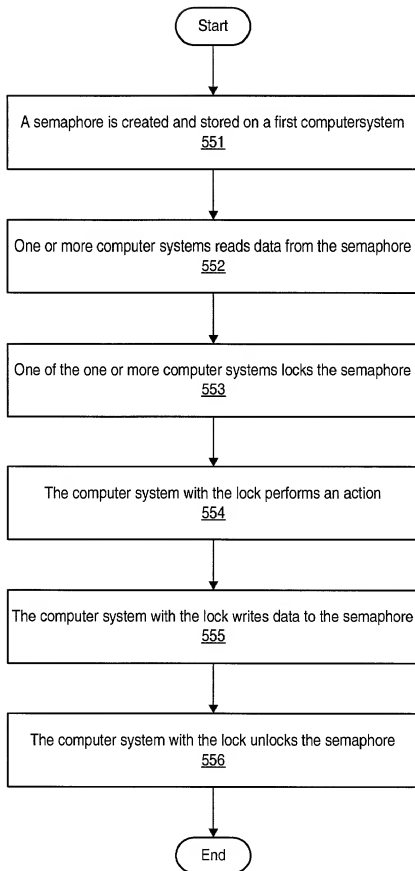


FIG. 5B

00000000.00000000

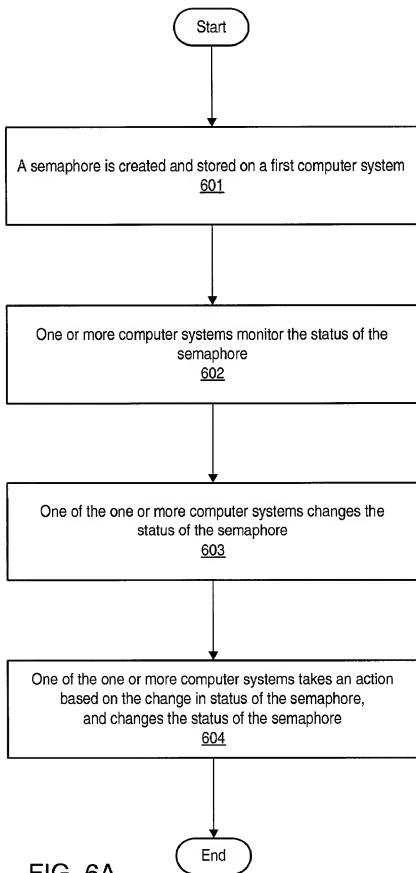


FIG. 6A

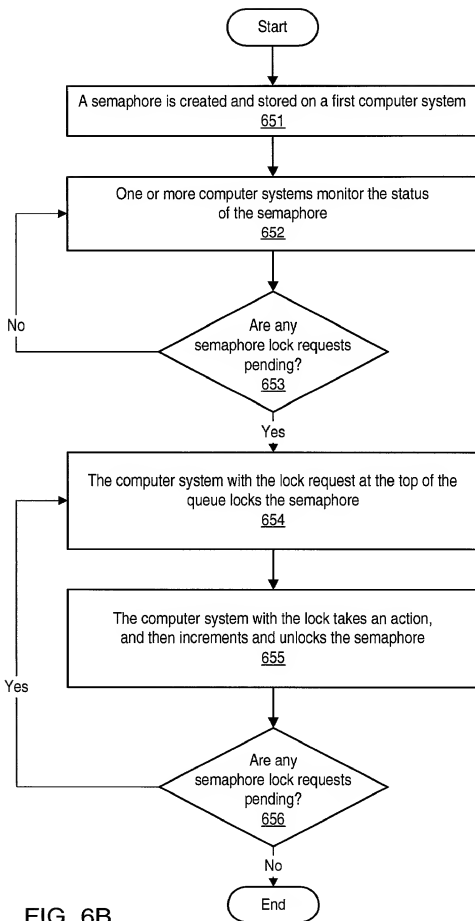


FIG. 6B

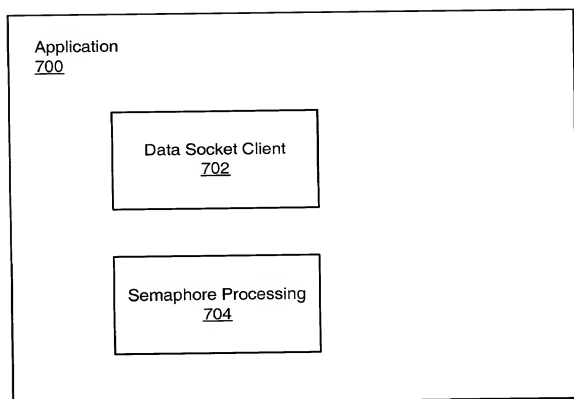


FIG. 7

Start

<p>Include data socket client in application</p> <p><u>802</u></p>
--

Create application code to process value of semaphore
804

Execute the application <u>806</u>

<p>User enters URL of target data socket (or data socket server) containing semaphore</p> <p><u>808</u></p>

Application executes Connect method of the data socket client using URL
810

Application processes value of semaphore
from data socket when semaphore value changes
812



```

graph TD
    Start([Start]) --> A[A]
    A --> B[B]
    B --> C[C]
    C --> D[D]
    D --> E[E]
    E --> F[F]
    F --> G[G]
    G --> H[H]
    H --> I[I]
    I --> J[J]
    J --> K[K]
    K --> L[L]
    L --> M[M]
    M --> N[N]
    N --> O[O]
    O --> P[P]
    P --> Q[Q]
    Q --> R[R]
    R --> S[S]
    S --> T[T]
    T --> U[U]
    U --> V[V]
    V --> W[W]
    W --> X[X]
    X --> Y[Y]
    Y --> Z[Z]
    Z --> End([End])

```

FIG. 8

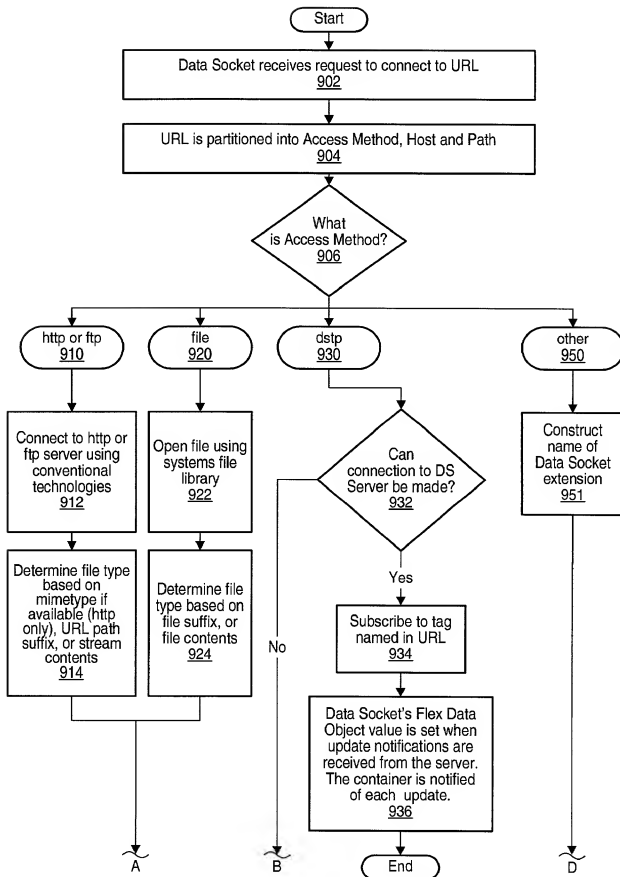


FIG. 9A

```

graph TD
    A((A)) --> D1{Does Data Socket have built-in support for the type? 916}
    D1 -- Yes --> P1[Built-in adapter converts data from file or stream into a Flex Data Object 918]
    D1 -- No --> D2{Is a Data Socket File Adapter for that type registered? 925}
    D2 -- Yes --> P2[Data Socket creates the File Adapter component 926]
    P2 --> P3[Data Socket calls File Adapter's Connect method 927]
    P3 --> P4[File Adapter reads data from file identified by URL 928]
    P4 --> P5[File Adapter constructs a Flex Data Object with values and attributes extracted from file 929]
    D2 -- No --> P6[Data Socket notifies container that value cannot be obtained 939]
    P1 --> P7[Data Socket's Flex Data Object value is set 957]
    P5 --> P7
    P6 --> P8[Data Socket notifies container that it received a value from the URL 959]
    P7 --> P8
    P8 --> End([End])

    B((B)) --> P9[Data Socket notifies container that value cannot be obtained 939]
    P9 --> D3{Is a Data Socket extension with that name registered? 952}
    D3 -- Yes --> P10[Create the extension component 953]
    P10 --> P11[Data Socket calls extension's Connect method 954]
    P11 --> P12[Extension connects to data source determined by path and parameters in URL 955]
    P12 --> P13[When data source has value extension stores the value in a Flex Data Object 956]
    P13 --> End
  
```

FIG. 9B

End